

Lib Curl

Table of Contents

1. Introduction.....

2. CookBook.....

2.1. Using LibCurl with Visual Studio.....

2.1.1. Practical installation.....

3. Development with C++.....

1

1

1

1

2

1. Introduction

libcurl - the multiprotocol file transfer library

[Official curl / libcurl site](#)

2. CookBook

2.1. Using LibCurl with Visual Studio

Interesting article on Stackoveflow :

[Intall properly libcurl for visual studio](#)

In my case I used

- libcurl_a.lib
- crypt32.lib
- Wldap32.lib
- Normaliz.lib

2.1.1. Practical installation

Version downloaded: **curl-7.83.1.zip**

Steps :

1. Download version

2. Unzip

3. Open Visual Studio 2022 Developer Command Prompt v17.0.4

4. Go to build folder D:\ccp_vhdd_app*curl-7.83.1\winbuild*

5. Create static library by running the command

```
nmake /f Makefile.vc mode=static
```

6. This will build curl as a static library into

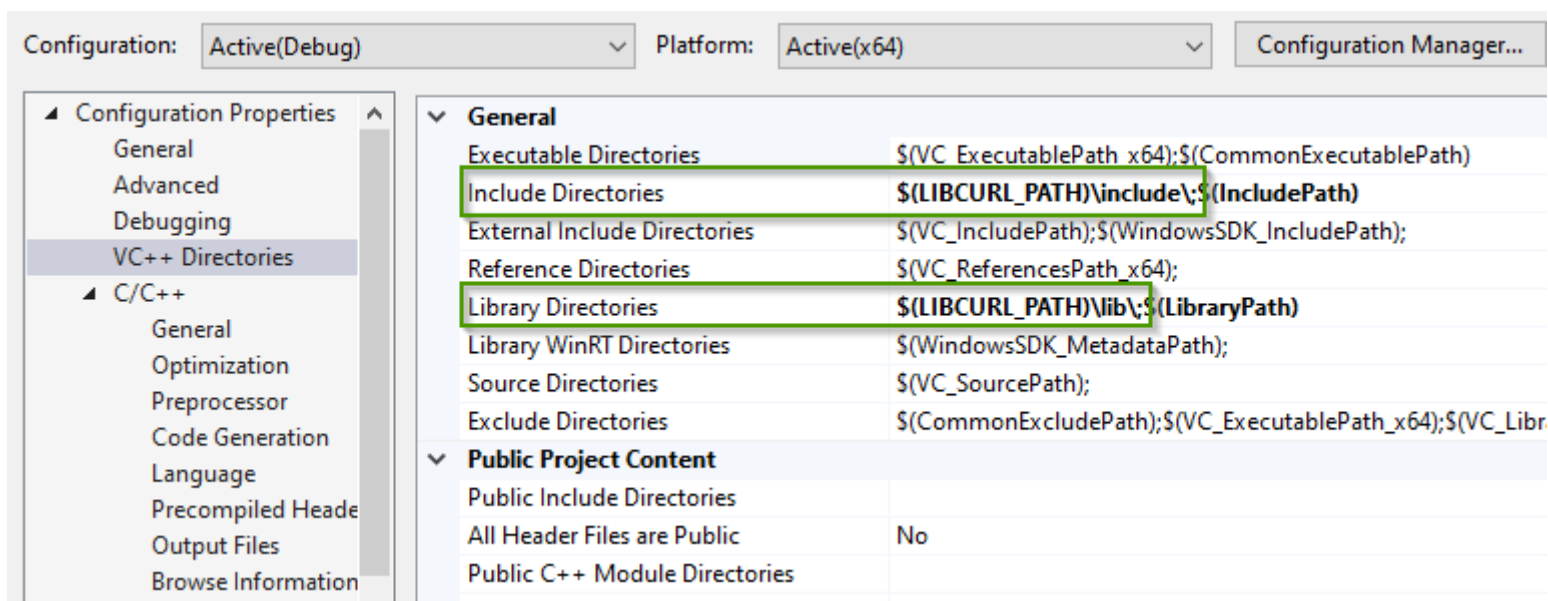
```
D:\ccp_vhdd_app\curl-7.83.1\builds\libcurl-vc-x64-release-static-ipv6-sspi-schannel
```

7. Definie environment variable that points to the static build

```
$env:LIBCURL_PATH = 'D:\ccp_vhdd_app\curl-7.83.1\builds\libcurl-vc-x64-release-static-ipv6-sspi-schannel'
```

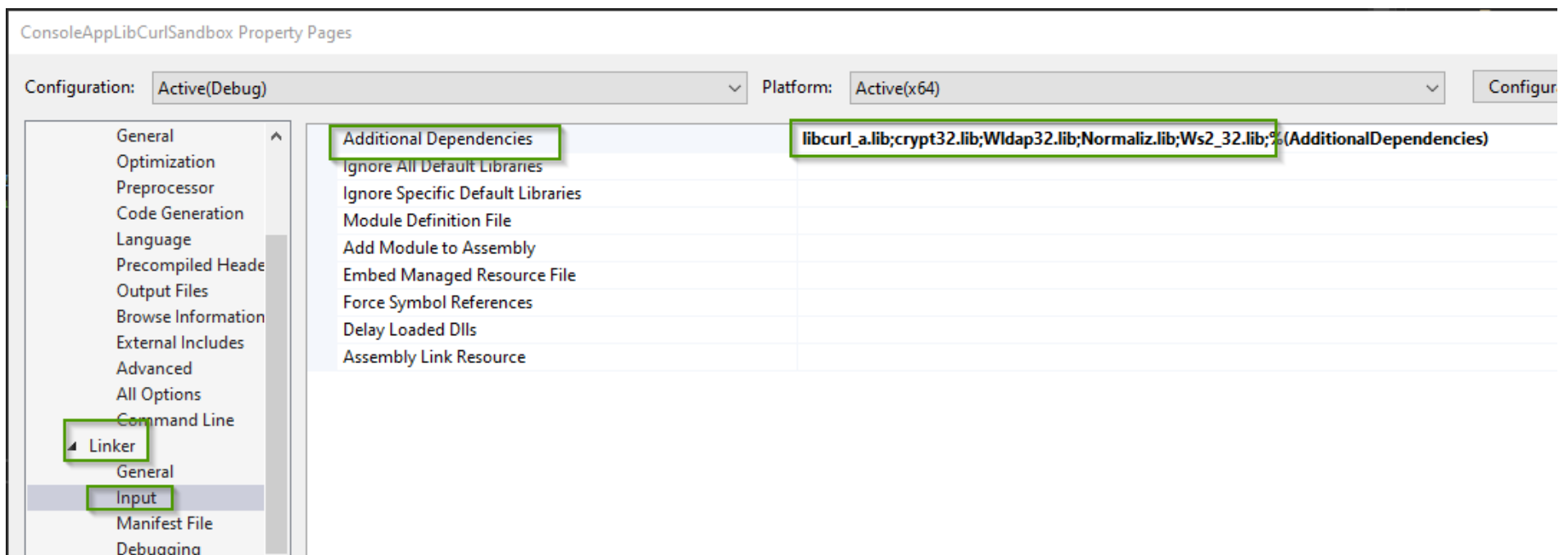
8. Set Visual Studio environment

a. Add libcurl in Include Directories + Library Directories



b. Add additional libraries for the linker

```
libcurl_a.lib
crypt32.lib
Wldap32.lib
Normaliz.lib
Ws2_32.lib
```



c. The definition CURL_STATICLIB should be added to the project. See below example of minimal source code in C++

```
#include <iostream>
#define CURL_STATICLIB
#include <curl/curl.h>

int main()
{
    CURL* curl;
    CURLcode res;

    curl = curl_easy_init();
    if (curl) {
        curl_easy_setopt(curl, CURLOPT_URL, "https://www.google.com");
        /* Perform the request, res will get the return code */
        res = curl_easy_perform(curl);
        /* Check for errors */
        if (res != CURLE_OK)
            std::cerr << "curl_easy_perform() failed:" << curl_easy_strerror(res) << std::endl;

        /* always cleanup */
        curl_easy_cleanup(curl);
    }
}
```

3. Development with C++

Libcurl with c There's basically only one thing to keep in mind when using C instead of C when interfacing libcurl:

The callbacks CANNOT be non-static class member functions

Example C++ code:

```
class AClass {
static size_t write_data(void *ptr, size_t size, size_t nmemb, void *ourpointer)
{
    /* do what you want with the data */
}
}
```